SE2 - A.Y. 2023-2024 - Analysis of a DD Document

You are asked to read the DD document available at

https://webeep.polimi.it/pluginfile.php/1116082/mod_folder/content/0/ProjectToBeReviewed/DD.pdf

and fill in the questionnaire below highlighting the issues that you find relevant.
For your reference, the description of the assignment can be found here:
https://webeep.polimi.it/pluginfile.php/1116082/mod_folder/content/0/ProjectToBeReviewed/Assignment_2022-2023.pdf

The form can be answered by individuals or by groups of maximum 3 students. The information concerning the student submitting the form will be automatically collected by the system. Please make sure that the information you add in the form about your group mates (if any) are correct.

Students who registered for the R&DD project must do this work within their project group; it will be useful to understand how to develop an excellent DD document.

The groups formed to submit this form should be the same as those for the RASD homework.

Preliminaries

Please make sure that the information you insert in the form is correct

1. Reference Professor *

- ( ) Prof. Di Nitto
- (●) Prof. Rossi
- ( ) Prof. Camilli

2. Is your group enrolled to the R&DD project? *

- (●) Yes
- ( ) No

3. Insert here the URL of the github repository you have created for your project. We will use that URL as an identifier of your group.
   *

4. How many group mates do you have? *

- ( ) No one, I am alone
- ( ) One
- (●) Two

Information about your first group mate

Please include here the information about your first group mate. The information about you are automatically recorded when you submit the form.

5. Last name of your first group mate *

6. First name of your first group mate *

7. Person ID of your first group mate *

Information about your other group mate

Please include here the information about your other group mate. The information about you are automatically recorded when you submit the form.

8. Last name of your other group mate *

9. First name of your other group mate *

10. Person ID of your other group mate *

Analysis of the DD document

Now you are ready to answer to the questions concerning the DD document

✓ **Esatto**   1/- Punti

11. Describe at most three between strengths and weaknesses you see in Sections 2.1, 2.2, and 2.3. Be concise and clear. *

    WEAKNESS:
    1) There are many implementation-specific details in the overview (2.1); consequently, the level of abstraction is violated by going into specifics with details about deployment such as the load balancer and firewalls.
    2) The component diagrams specify the components and the most relevant communications between them, but there is no accompanying class diagram to show how components are built and interfaces are implemented.

    STRENGTHS:
    3) The components in the component view (2.2) are highly decoupled: there is no direct communication between them, instead the dispatcher works as some sort of API gateway and integrates all the components between them.

    Feedback: "3rd point is a weakness as well."

✓ **Esatto**   1/- Punti

12. Describe at most three between strengths and weaknesses you see in Sections 2.4, 2.5, 2.6, and 2.7. Be concise and clear. *

STRENGTHS:
1) There is a good correlation between the use cases defined in RASD and the runtime view specified here. All the use cases previously defined are also covered with their sequence diagram.

WEAKNESS:
2) In the component interface (2.5) PaymentManagerI, SocketSoftwareManagerI defined in the component view are missing.
3) The component interface does not correctly specify the signature as all types are missing and it also does not specify the return objects.

✓ **Esatto**   1/- Punti

13. Describe at most three between strengths and weaknesses you see in Sections 3, 4, and 5. Be concise and clear. * 🔲

WEAKNESS:
1) There is not a good correlation between what is specified in the requirements traceability section and previously used in the runtime view sequence diagrams:
    a. In most DBMSes are missing
    b. In R27 Calendar API, EV Software and SharedDBMS are missing.
    c. In R28 payment manager and payment authority are missing.
    d. In R17 ReservationViewer is missing.
    e. In R25 is not specified who send the notification.
    f. In R20 all backend components are missing.
2) In the User interface design (3), the QR code page used for scanning and starting a recharge is missing.

STRENGTHS:
3) In the Requirement traceability, the requirements presented in the DD are consistent with those in the RASD. In particular, all requirements from [R1] to [R29] have components associated with them, and as a result they all appear to be covered.